



Thwing-Albert Instrument Company

More Than a Century of Testing Solutions

Inkometer 1100 Electronic Ink Tester

The Inkometer 1100 measures the apparent tack of printing ink under conditions closely approximating the dynamic conditions of the ink-distribution system of a printing press. The testing instrument provides the highest accuracy and efficiency for research and development, quality control and process evaluation to verify, test and improve quality.

The instrument measures the integrated forces involved in ink film splitting and the effects of roller speed, film thickness, temperature and solvent evaporation.

The Inkometer 1100 consists of three rollers. The center roller is a temperature controlled brass roller. The bottom roller is an oscillating rubber composition distribution roller. The top roller is a rubber composition roller attached to the measuring system which measures tack. Rollers are available for testing standard and UV inks. The brass roller temperature is controlled by circulating a coolant mixture provided by a Constant Temperature Circulator (CTC).

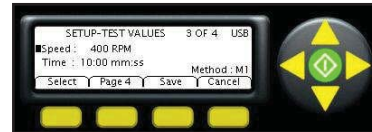
The tack is reported in gram-meters and represents the torque required to "work" the ink film at a known rate with predetermined film thickness and temperature.

The Inkometer 1100 multi-line display shows the temperature, tack, roller speed and test time. Tack readings can be exported to the RS-232 port, the integrated printer or to a USB flash drive. Statistical reports can be viewed directly from the display. The Inkometer provides four test methods based on ASTM D-4361 as well as five user configurable methods that are stored in non-volatile memory.



Printer with
Sample Data

ELECTRONIC INKOMETER INKOMETER 1100	
NO	400/01:00
DATE	02/11/11 TIME:11:30
TIMER SET AT:	10 SEC
TEST SPEED:	400 RPM
TEST RUN:	# 1
# TIME GRAM-METER	
# 1	10SEC 25.7 gm-m
# 2	20SEC 25.8 gm-m
# 3	30SEC 25.8 gm-m



▲ Inkometer 1100

◀ Sample Menu Setups



Features:

- Reliable data about ink tack
- Digital keypad with simplified setup menus
- 4 Preset methods based on ASTM D-4361
- Create and save 5 custom test methods
- Store up to 180 tack readings
- Preset & programmable speed options
- Built-in printer for instant results
- Portable data via USB port
- Calibration weights included
- Emergency stop button



Physical Specifications

Instrument Dimensions: 18 in D x 36 in W x 18 in H
(460 mm x 915 mm x 460 mm)

Shipping Dimensions

Inkometer 1100: 40 in D x 48 in W x 26 in H

CTC: 23 in D x 14 in W x 28 in H

Approx. Gross Weight: 300 lbs (136.08 kg) including CTC



▲ Constant Temperature Circulator (CTC)



▲ Calibration Weights in Place Included with Package

Technical Specifications

Speed Range: 150-3100 RPM

Roller Testing Speeds - Preset
400, 800, 1200 and 2000 RPM
(314, 628, 942 and 1570 feet per minute)

Roller Testing Speeds - Programmable
0 to 3000 RPM (4000 RPM Option)

Roller Speed Accuracy: ± 2 RPM

Display Temperature Range: 0°C to 50°C
(32°F to 122°F)

Display Temperature Resolution: 0.06°C (0.1°F)

Distribution Time: 1 second to 30 seconds

Sample Rate: 10 seconds to 10 minutes

Test Duration: 10 seconds to 30 minutes

Tack Accuracy: ± 0.2 gram-meters

Specifications subject to change without notice.

Power Requirements

Input Voltage:

Part Number 01100-2001: 120 VAC, 50/60 Hz

Part Number 01100-2002: 220 VAC, 50/60 Hz

Operating / Storage Environment

Air Temperature:

Operating: 15° C to 25° C (59° F to 77° F)

Storage: 25° C to 70° C (-13° F to 158° F)

Relative Humidity:

Operating: 20% to 60% non-condensing

Storage: 5% to 90% non-condensing

Thwing-Albert Instrument Company

14 W. Collings Avenue, West Berlin, NJ 08091, USA

tel 856-767-1000 ■ fax 856-767-2615 ■ info@thwingalbert.com

www.thwingalbert.com



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Registered Company